



**High Performance
Laminating Systems**

MA **MIDWEST
AUTOMATION**

Innovative Products for Innovative People

midwest 
GROUP ONE

High Performance Laminating Systems

Where Superior Performance, Precision & Durability Meet



PC 140/160 Panel Cleaners

Ideal for cleaning sawdust or other contaminants from panels or cores prior to adhesive application for cleaning top and bottom surfaces simultaneously. An important first step in any laminating application.

Features Include

- Two cylindrical brushes & dust collection hookups
- Handwheel operated panel thickness with mechanical readout
- Pneumatic actuated drive rollers
- Variable speed control

Optional equipment includes powered or electric thickness controls, anti-static kit, and powered outfeed rollers.

GS 300/400-O Open Roll Coaters

Ideal for applying single and two component liquid urethane and epoxy adhesives where accurate coverage is required.

Features Include

- Large diameter rollers
- Cast iron roller supports
- Independent drive motors for each spreading & doctor roller
- Powered outfeed rollers
- Teflon glue dams
- Stainless steel collection tray
- Safety guards & interlocks

Optional equipment includes automatic panel and adhesive thickness control, automatic level sensing, pre-conditioning heating and cooling units, and two-component mixing systems.



HGS II Hot Melt Glue Spreaders

Designed to apply hot melt adhesives, including polyurethane adhesives (PUR), to flat panels or surfaces using specially designed heated rollers.

This system is used in conjunction with a hot melt adhesive melter and is ideal when laminating a wide range of dissimilar materials such as foam, aluminum, steel, plastic, gypsum board and wood.

Features Include

- Large diameter, silicone-covered spreading rollers
- Large diameter, chrome-plated doctor rollers
- Cast iron roller supports
- Independent drive motors for each spreading & doctor roller
- Variable speed forward/reverse drive with digital line speed display
- Electrically heated thermal oil for heating all spreading & doctor rollers with electronic temperature control
- Powered panel thickness control
- Handwheel operated glue adjustment
- Pneumatically operated "floating" Teflon glue dams
- Stainless steel collection tray
- Stainless steel ventilation hood with plexiglas doors
- Safety guards & interlocks



Optional equipment includes automatic panel and adhesive thickness control, automatic level sensing, and teflon coated outfeed rollers.



PR 400/500 Pinch Roll Presses

Heavy-duty pinch roll press designed for continuous duty applications. Available in 4, 5, and 8 foot standard widths.

Features Include

- Solid top and bottom rollers
- Handwheel operated panel thickness with digital readout
- Direct-drive bottom roller
- Electronic variable speed control

Optional equipment includes segmented bottom roller, pneumatic loading system, powered upper roller, electronic thickness control, and more.

RP 4000/5000 Roller Press

Designed for optimum compression with PUR hot melt adhesives in a continuous process. The RP 4000/5000 offers a heavy duty, fixed roller design for high pressure laminating with direct drive upper and lower rollers.

Standard 4 and 5 foot wide models are available in 3, 5 and 10 roller configurations.



Optional Allen-Bradley PanelView™ with color monitor.



RP 4000/5000 with 6 driven upper rollers & pneumatic pressure control



RP 4000/5000 with 10 rubber-coated, precision ground roller sections



Features Include

- Welded structural tube frame incorporates a "ladder" style design
- Solid top and bottom rollers
- Powered panel thickness adjustment with digital display
- Electronic variable speed AC drives with digital line speed
- Large diameter rollers are rubber-coated and precision ground
- Direct drive upper and lower rollers using helical bevel gear boxes
- Free standing electrical enclosure with push button controls
- Precision jacks with rubber dust boots connected with drive shafts and chains
- Gas spring-operated doors for ease of access
- Infeed hold down roller & safety bar
- Emergency stop

Optional equipment includes Allen-Bradley PanelView™ HMI with color monitor, Allen-Bradley MicroLogix™ PLC controller, pneumatic pressure control system, silicone or steel rollers, additional powered rollers, powered outfeed roller, and electrical thickness control with positioning unit.



"Ladder" style structural steel frame insures parallelism.

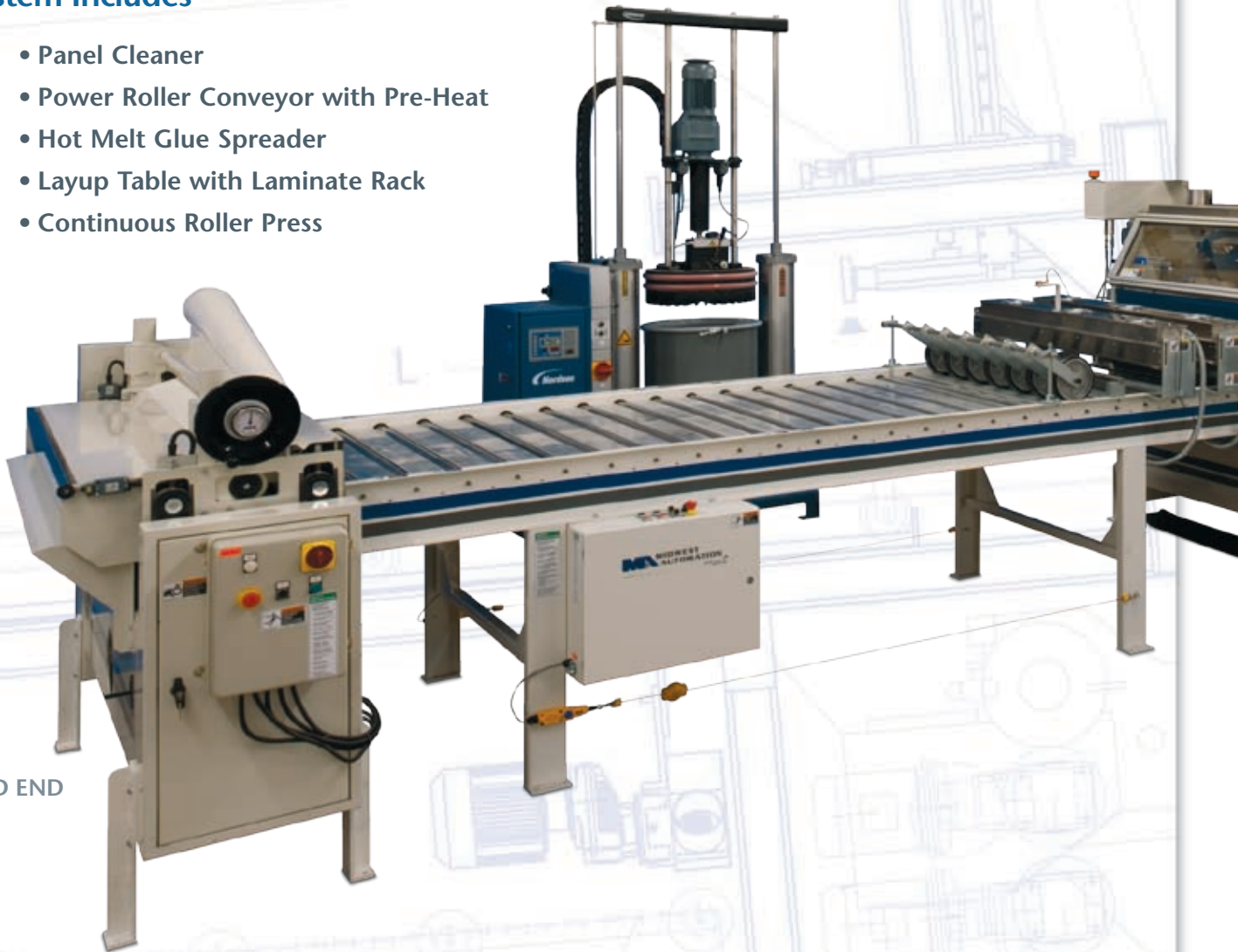


***A Special 12-inch wide Roller Press with 20 Roller Sections
for Narrow Part Applications***

Hot Melt (PUR) High Performance Laminating System

System Includes

- Panel Cleaner
- Power Roller Conveyor with Pre-Heat
- Hot Melt Glue Spreader
- Layup Table with Laminate Rack
- Continuous Roller Press



INFEEED END

Outfeed End View



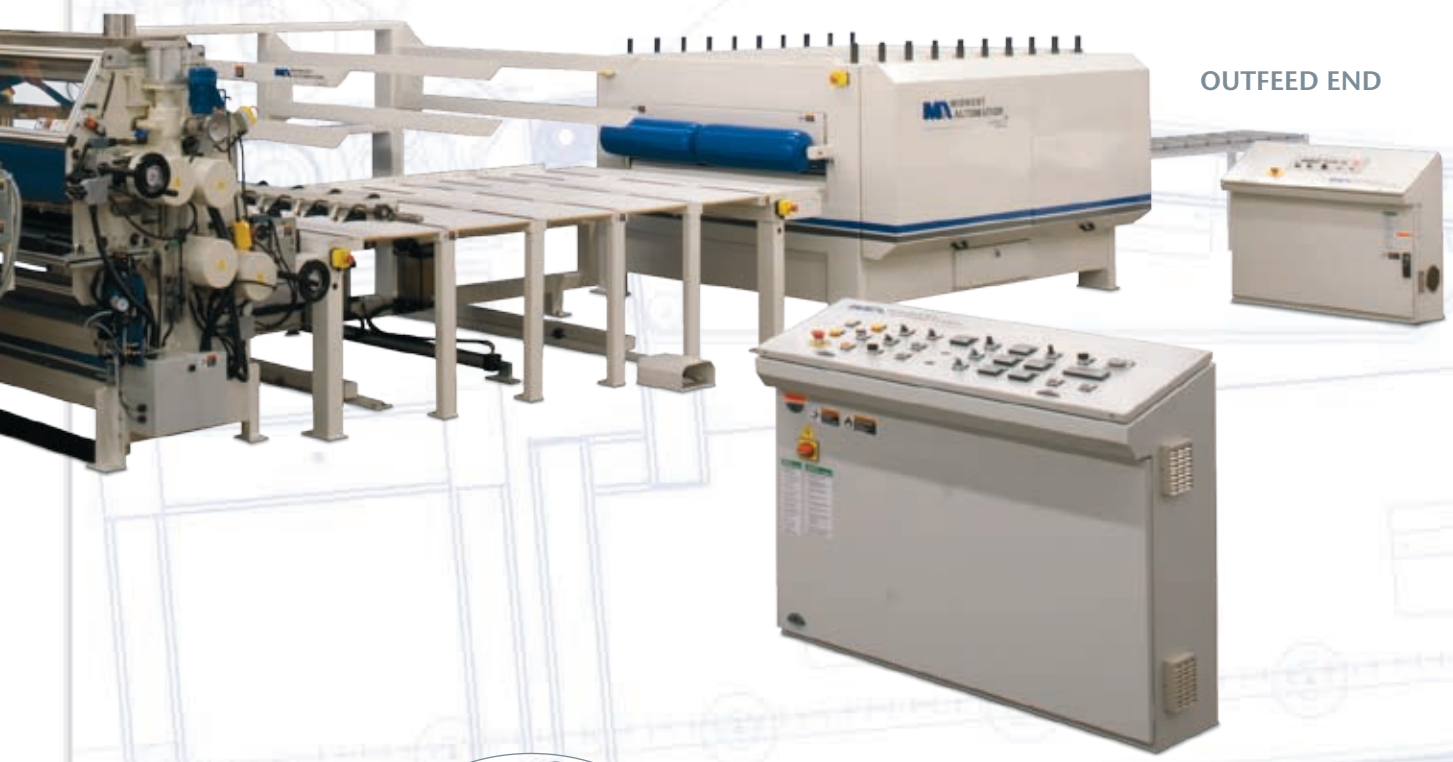
Finished Interior Door

41.00

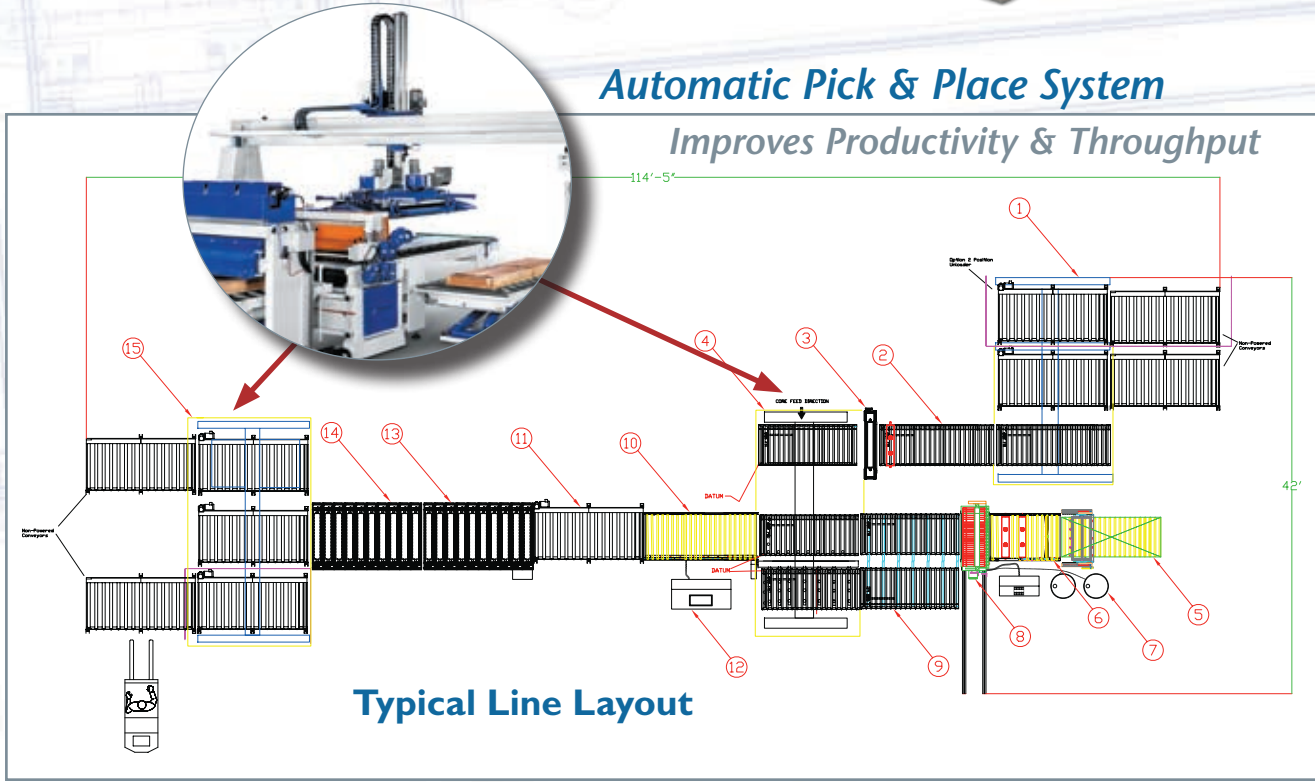
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OUTFEED END



Automatic Pick & Place System Improves Productivity & Throughput



Typical Line Layout

Midwest Group One is a leading innovator in performance laminating systems offering a wide range of adhesive laminating technologies and systems involving (PUR) hot melt and liquid polyurethane adhesives.

Residential & Commercial Entry Doors



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